

GenCore version 4.5  
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## OM protein - protein search, using sw model

Run on: June 7, 2001, 00:17:37 ; Search time 80.78 Seconds  
(without alignments)  
1507.389 Million cell updates/sec

Title: US-09-494-297-2

Perfect score: 3945  
Sequence: 1 MKKTRFPKMLTNTQRLVLS.....TAGISLGWGIHTIRKHD 757

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1009251 seqs, 160854530 residues

Total number of hits satisfying chosen parameters: 1009251

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 08  
Maximum Match 1008  
Listing first 45 summaries

## Database :

Pending Patents, AA Main:\*

- 1: /cgnl\_7/ptodata/1/paa/US06\_COMB.pep.\*
- 2: /cgnl\_7/ptodata/1/paa/US06\_COMB.pep.\*
- 3: /cgnl\_7/ptodata/1/paa/US07\_COMB.pep.\*
- 4: /cgnl\_7/ptodata/1/paa/US08\_COMB.pep.\*
- 5: /cgnl\_7/ptodata/1/paa/US081\_COMB.pep.\*
- 6: /cgnl\_7/ptodata/1/paa/US082\_COMB.pep.\*
- 7: /cgnl\_7/ptodata/1/paa/US083\_COMB.pep.\*
- 8: /cgnl\_7/ptodata/1/paa/US084\_COMB.pep.\*
- 9: /cgnl\_7/ptodata/1/paa/US085\_COMB.pep.\*
- 10: /cgnl\_7/ptodata/1/paa/US086\_COMB.pep.\*
- 11: /cgnl\_7/ptodata/1/paa/US087\_COMB.pep.\*
- 12: /cgnl\_7/ptodata/1/paa/US088\_COMB.pep.\*
- 13: /cgnl\_7/ptodata/1/paa/US089\_COMB.pep.\*
- 14: /cgnl\_7/ptodata/1/paa/US090\_COMB.pep.\*
- 15: /cgnl\_7/ptodata/1/paa/US091\_COMB.pep.\*
- 16: /cgnl\_7/ptodata/1/paa/US092\_COMB.pep.\*
- 17: /cgnl\_7/ptodata/1/paa/US093\_COMB.pep.\*
- 18: /cgnl\_7/ptodata/1/paa/US094\_COMB.pep.\*
- 19: /cgnl\_7/ptodata/1/paa/US095\_COMB.pep.\*
- 20: /cgnl\_7/ptodata/1/paa/US096\_COMB.pep.\*
- 21: /cgnl\_7/ptodata/1/paa/US097\_COMB.pep.\*
- 22: /cgnl\_7/ptodata/1/paa/US098\_COMB.pep.\*
- 23: /cgnl\_7/ptodata/1/paa/US099\_COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description                          |
|------------|-------|-------------|--------|-------|--------------------------------------|
| 1          | 205   | 5.2         | 1154   | 15    | US-09-134-000-6122 Sequence 6122, Ap |
| 2          | 181   | 4.6         | 728    | 15    | US-09-107-532-4518 Sequence 4518, Ap |
| 3          | 168   | 4.3         | 1233   | 15    | US-09-134-000-4971 Sequence 4971, Ap |
| 4          | 161   | 4.1         | 1416   | 14    | US-09-071-035-404 Sequence 404, App  |
| 5          | 161   | 4.1         | 1448   | 14    | US-09-071-035-402 Sequence 402, App  |
| 6          | 152   | 3.9         | 1849   | 12    | US-08-851-567B-49 Sequence 49, App1  |
| 7          | 152   | 3.9         | 2516   | 12    | US-08-851-567B-47 Sequence 47, App1  |
| 8          | 150   | 3.8         | 1161   | 17    | US-09-327-536-2 Sequence 5, App1     |
| 9          | 149   | 3.8         | 1315   | 16    | US-09-200-650-5 Sequence 5, App1     |
| 10         | 149   | 3.8         | 1315   | 16    | US-09-200-650A-5 Sequence 5, App1    |

|  | 11                | 12                | 13                | 14                | 15                | 16                | 17                | 18                | 19                | 20                | 21                | 22                | 23                | 24                | 25                | 26                | 27                | 28                | 29                | 30                | 31                | 32                | 33                | 34                | 35                | 36                | 37                | 38                | 39                | 40                | 41                | 42                | 43                | 44                | 45                |                   |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|  | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               | 149               |
|  | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               | 3.8               |
|  | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              | 2032              |
|  | US-09-071-035-458 | US-09-071-035-462 | US-09-071-035-466 | US-09-071-035-470 | US-09-071-035-474 | US-09-071-035-478 | US-09-071-035-482 | US-09-071-035-486 | US-09-071-035-490 | US-09-071-035-494 | US-09-071-035-498 | US-09-071-035-502 | US-09-071-035-506 | US-09-071-035-510 | US-09-071-035-514 | US-09-071-035-518 | US-09-071-035-522 | US-09-071-035-526 | US-09-071-035-530 | US-09-071-035-534 | US-09-071-035-538 | US-09-071-035-542 | US-09-071-035-546 | US-09-071-035-550 | US-09-071-035-554 | US-09-071-035-558 | US-09-071-035-562 | US-09-071-035-566 | US-09-071-035-570 | US-09-071-035-574 | US-09-071-035-578 | US-09-071-035-582 | US-09-071-035-586 | US-09-071-035-590 | US-09-071-035-594 | US-09-071-035-598 |

## ALIGNMENTS

RESULT 1  
US-09-134-000-6122  
; Sequence 6122, Application US/09134000A  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS  
; TITLE OF INVENTION: FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: GTC-005  
; CURRENT APPLICATION NUMBER: US/09/134, 000A  
; CURRENT FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 6810  
; SEQ ID NO 6122  
; LENGTH: 1154  
; TYPE: PRT  
; ORGANISM: Enterococcus faecalis  
US-09-134-000-6122

Query Match 5.2%; Score 205; DB 15; Length 1154;  
Best Local Similarity 23.4%; Pred. No. 9.4e-08;  
Matches 167; Conservative 85; Mismatches 231; Indels 230; Gaps 43;  
YQ VNEGS--RSYOVYCFMLKRAFPGLGSSSVKWKYKKGISTKRED-----YAMSPIRT 147  
DB VSLTGATINSNEY-----LGKGEQIHHQV--IOTSEENKPPDFWQOMGRRT 650  
OY 148 GDELNQLRAVMYNGHQNGIMEGLEPLNAIRYVOEAWYISDNAPINPDESFKRES 207  
DB 651 FQPLAFAPEKVD-----GVPSGKAP--GVKLANKKIWEEDODPTSPPNVYIYS 700  
OY 208 ESNVSTVS-----QSLNRQALKQLIDPNLTKMKPKQVDDFO--LSIFESDKGDY 258  
DB 701 RKQVTDIANNQGTGIRKSKFENDISNWKERKNVTQLSKTADSEQVYGLGIPYNNQOAF 760

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QY 259 NKGQNTLSGLVYKPTKPGDPRMPNOQOTSU---LIRKTAIGYSLKLGATLDT 31.5
Db 761 N-YQTRRELA-VPGYQEKIDDTTKNTQKFRPLDKATKNSSGE--KNLGAFAEELS 81.5
QY 316 GDVYNSEQARVFSND---IGERIELSDG-TYTLTELNSPAGYSIAPIITFVEVA--G 36.7
Db 816 GKNV---QTLTVDKKQDSYSLPKDVRLOKGBRATLVLEVKAPAGHELKKTWQIEVSEOG 87.2
QY 368 KYVITIDGKQIENPKKELIVEPYSVEAVNDEEFSV---LITQ-----NAKFTYA---K 41.5
Db 873 KV--SIDGEQETTTNOYI--PLEIE--NKFSPLDIRIKRYTMQNGKQVNLAEATFALOK 92.6
QY 416 NKNSSOVVYCFNADLKSPPDSEGGKTMTPDFTGEVXKTHLAGROLFYTVAKPRDTP 47.5
Db 927 NAGSYOTVATQKTD-----TTG----- 94.4
QY 476 DTELKHKRYIEKG-YREKQALIEYSGLTETOLRAATOLAITYFTDSAEELDKDLKDYHG 53.4
Db 945 ---LSYE-KISEPEYK---MVGQSG---PLGYDLAAGNEYT---VDK----- 98.0
QY 535 FGDMDNSTLAVAKLIVYEAQ---DSNPQLTDLDFIIPNNKQIOLSIGTQWHPEDLVDTI 59.1
Db 981 YGK-----IHVAKNIEENAPEWT----- 99.9
QY 592 RMEDKKEVIPYTHNLTRK---TYTGLAGRTKDFHFELEKNNKQELLSQYTKTKNTL 64.8
Db 1000 -----LTHNNLNKPRDLYHKRADNOT-----PLKAKFPLTG-----PDTDI 103
QY 649 EF-KDGKAT-----INLKEE-SLTLOGLEGGYSYLKETD---SEGYKVKVNSQEVANA 69.8
Db 1038 ELFPDGEKETPEVEENLKPGRVYLTETFEPEGYQGLKEPIELIIREGGSYIDGEEKADV 109
QY 699 TVS---KTGITSDETLAFENKKEBPVPTGDKINGLAL---VINGISLGI 74.5
Db 1098 LISEKNNQITLDVT---NOAKVPLPETGIGRLWFTLIAISTFVIAGVYLFI 114.7

RESULT 2
US-09-107-532-4518
Sequence 4518, Application US/09107532
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NOCULEIC ACID AND AMINO ACID SEQUENCES RELATING TO
TITLE OF INVENTION: ENTEROCOCCUS FAECIUM FOR
TITLE OF INVENTION: DIAGNOSIS AND THERAPEUTICS
NUMBER OF SEQUENCES: 7308
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
City: Waltham
STATE: Massachusetts
COUNTRY: US
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD/ROM ISO9660
COMPUTER:
OPERATING SYSTEM:
SOFTWARE:
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085598
FILING DATE: May 14, 1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Artiello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:

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      TELEPHONE: (781)893-5007
      TELEFAX: (781)893-8277
      INFORMATION FOR SEQ ID NO: 4518:
      SEQUENCE CHARACTERISTICS:
        LENGTH: 728 amino acids
        TYPE: amino acid
        TOPOLOGY: linear
        MOLECULE TYPE: protein
        HYPOTHEetical: YES
        ORIGINAL SOURCE:
          ORGANISM: Enterococcus faecium
          FEATURE:
            NAME/key: misc_feature
            LOCATION: 1..728
US-09-107-532-4518

Query Match               4.6%; Score 181; DB 15; Length 728;
Best Local Similarity     20.7%; Pred. No. 4.7e-06;
Matches 147; Conservative 102; Mismatches 235; Indels 226; Gaps 37

QY   96 VNLEGS--RSYOVYCENLKAAPPLGSDSSVKKWKYKHHDGISSTKEDY-----A 141
Db   175 ISISGNITKSNOIY-----LGKDDEIQIHGYVR--IQENEDVPHNFWYGMNGRRT 223

QY   142 MSPRTGDLMOKLRANVNGHPONANGIMEGLEFLNAIRYQEAIVWYSDAAPSNDPE 201
Db   224 FQPNDTDELAE-----FGIPSAKAGVSLSH--KKLMEEFNNLNADRPQQ 267

QY   202 -SFKRESSENLVSTQSILMRQALIKOLIDPNLAT-----KMPKQVPDDFO--LSI 248
Db   268 VTFELQRE----HTTNAAAMKNGIYRIIRIKPAKDTNTWERADIDLSAHSGSYOEIISL 323

QY   249 FESEDKGDKYKNGYONLLSGGLVPTKPPTPG-----DPMPNPQQTTSV--LIKKYA 299
Db   324 PQYNMGQAFAFS--YQTI-----KELPVPQDSQOIDAMTWKNTKQFTPLMLKITKNSS 374

QY   300 IGDYSKLLEGATLTQIGNNNSFOA-RPFSSNDIGERIEL-SDGYTTTELNSPAGYSTA 357
Db   375 TGE--KDLIGAVFKTGTSIDTLTLTDHGDGYSLPDENVKLOEMTYTLETAKAPGHGIS 432

QY   358 EPIFFKVAGAVYT-I-DGK-----QIENPKIEIYPYSVEAVNDFEESVLTT 405
Db   433 KKTWEIETIASDGIYTTIDGKYVTTSDDTLTQLTIENPFEV--PAVAKRYAMGTKEINL 490

QY   406 QNVAKFYAAKNNKSSQVVYCFNADLKSPDSE--DGAKTWPDETTEGVKYYTHIAGRD 462
Db   491 KGAAFSLQCKREANGYO-----PIDSQITNEKGLASFDLSLPGKYRVVFETAGA 539

QY   463 LFKTVYPRDTDPDTFLKHIIKVIIEKGYIREGQALEYSGLTQURLAATOLAIYFTBSA 522
Db   540 GY-----DTPSPGVFERQIDKY-----GKIIL-YTGKNTENTMNNWTLLHNRLKAF 583

QY   523 ELDDKDKLDYGFGDMNSDTLAVAKILIVEAYQDASNPPOLDTDEFIPNNNKYQSILGTQM 582
Db   584 DLYVHKKED-----NKOTLKGAKFRLQ-----GPEN-DLE----- 612

QY   583 HPEDLVDIRMEDKKEYVIPYTHNLTRKTYVTGLADRTRKDFHEFIETLNKNOELLSQLTK 642
Db   613 SPKD-----GQENDTFLFE----- 626

QY   643 TDKTNLNLFKDKKATITNLKHF-SLTLOGLPBGYSTL--VKETDSEGKYKVNQSOEVANA 698
Db   627 -----NLKPGETYTLTEFTPEGYOALKEPYTVIHHEDSIQVDGOD--HE 669

QY   699 TVSKTGINSDE-TIAFENN-KEPVYPTVDDKINGYLALIYAGISLGIW 746
Db   670 SVLSPGANNNQISLDITNQAKVPLPETEGICGRIGTY--LVGMIGCAFSTIW 717

RESULT           3
US-09-134-000-4971
Sequence 4971, Application US/09134000A

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: GENERAL INFORMATION:
: APPLICANT: Lynn Doucette-Stamm et al
: TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS
: TITLE OF INVENTION: FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
: FILE REFERENCE: GTC-005
: CURRENT APPLICATION NUMBER: US/09/134,000A
: CURRENT FILING DATE: 1998-08-13
: NUMBER OF SEQ ID NOS: 6810
: SEQ ID NO 4971
: LENGTH: 1233
: TYPE: PRN
: ORGANISM: Enterococcus faecalis
US-09-134-000-4971

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|                       |                  |                   |            |             |
|-----------------------|------------------|-------------------|------------|-------------|
| Query Match           | 4.3%             | Score 168         | DB 15      | Length 1233 |
| Best Local Similarity | 21.5%            | Pred. No. 0.00015 |            |             |
| Matches 163           | Conservative 105 | Mismatches 323    | Indels 168 | Gaps 42     |

|    |      |  |   |                          |
|----|------|--|---|--------------------------|
| Qy | 39   | ALTYSWAGATVYGLVES---                     | SNPAININSSSEKRWGYESYVGHPIYKQFRAHDL                  | 95                       |
| Db | 515  | SLSPTVIGPKKAIQLVSDQYIEPISVYN-            | LNAETIANGITD-----                                   | NCAYSIR 562              |
| Qy | 96   | --VNLEGRSYOYCENLKAPP---                  | IGSDSSYKWKYKKHIDGISTKEDYAMSBRITGD                   | 149                      |
| Db | 150  | ELNOKLRAYNNGHPONANGIMBLE---              | PLNAIRYQAEVWYISDNAPISNDESEFK                        | 204                      |
| Qy | 616  | VIFETTPITNEIPIRGFIYVPSPLKROKSISVDPI      | PIIMSABGLPVDYIVTT---NSK                             | 672                      |
| Qy | 205  | RESESNLVSTSQLSRQALKOLIBENLITAKKAPKOV     | PDFOFOLSIPESEBDKGDKYKQGN                            | 264                      |
| Db | 673  | RGEERLQSSKNQFLVMAANDSDLSIVTKIPACA-       | DVLEFDIYVSN--DQYDSITPQ                              | 728                      |
| Qy | 265  | LISGLGLVTPKPPTPGPPMP--                   | PNOPQTTSVLI-----                                    | RKAYIGDYSKL--LEGATLQ 313 |
| Db | 729  | YMRGQVYFDKPMTPNSPGYPTITFIDENTNSTYF       | DFGKTKRYII--EYKNANGIMDIPPLY                         | 787                      |
| Qy | 314  | LTC-----                                 | DNVASFAPARFSSNDIGERLELSDGYITTELNS                   | PAGYSIAEPIITFKVAG 367    |
| Db | 788  | ITGTAREPOSNNEGSASVON--                   | EALDILISAT-----                                     | QANPTLKNKYT 832          |
| Qy | 368  | KYVT-IIDG--                              | OIEPNKEIPEYSEVLYNDFEESVLTQNVAKFYAKKNGSSOVV          | 424                      |
| Db | 833  | TYVTTKIDNKTHKVKKPTIELPKGTTNAQIDLNSTY-    | -----   | KVPEBDA 877              |
| Qy | 425  | YCNENADLKSPPOSEDGKTMTPDPTTGE---          | VKYTHIAGRDLFKYTVKPRDTPDPTFLKH                       | 481                      |
| Db | 878  | Y-----                                   | SLEKTTNGAKVIFKQYFLTENITIEVMTVSNAGQIYETITIDSETLNGQSA | 930                      |
| Qy | 482  | IKKVI-----                               | EKGREGQOALIEYSGLETQLRATQALAIYFTD---                 | SAEL 524                 |
| Db | 931  | SKRKVTAPITLKFSEGDAGIYLATAFYTHNVEDENO     | AIKVSFELIDWHTATAEF                                  | 990                      |
| Qy | 525  | DKRKLKDHYGFGDM-NDSTLAVAKILVEYAODSN       | POLR-----   | DLDEFIR--- 569           |
| Db | 991  | TTBEKGOYSFDAIMTGDYILRTYNNPOEYSVDE-       | YLGKAIKILVKGDNQKILPTLTI                             | 1048                     |
| Qy | 570  | NNNKYO-----                              | SLICTQMPHEDLVLDIIRREDK-EVPIPTHMLRTKVTGLAGDRTKDF     | 623                      |
| Db | 1049 | DHSRLQYKDSITIVGDSWKMPDEE--               | NFVSATDKTGQDVPE-----                                | KIIVSGVY-DNTKAG 1100     |
| Qy | 624  | HEBELKLN-NKQELLSQIYKTDKTNLEFODGATITNLKHG | SSLTLOGLPEBGSYLYVETD                                | 682                      |
| Db | 1101 | VYPIIYSDEKEETAVTAKPDPDSKLEVND--          | TTIYV-GDSWK---PE--                                  | DNEVSATD 1150            |
| Qy | 683  | SEGYKY---                                | KVNSOEVANATVSTGTTSETLAPENKKE                        | 718                      |
| Db | 1151 | KTGODVPEEKIDVQGTYN--                     | VDIIG---  | DYEIIVYKNGK 1184         |

US-09-071-035-404

Sequence 404, Application US/09071035

APPLICANT: Gil H. Choi  
 TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides  
 NUMBER OF SEQUENCES: 496  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Human Genome Sciences, Inc.  
 STREET: 9410 Key West Avenue  
 CITY: Rockville  
 STATE: Maryland  
 COUNTRY: USA  
 ZIP: 20850

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage  
COMPUTER: UN Vax-33 406/33

COMPIER: HP VecIra 486/33  
OPERATING SYSTEM: MSOS 3.11

```
SOFTWARE: ASCII Text
OFFENDING SYSTEM: MBDOS VERSION 0.2
```

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US

**FILING DATE:**

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER:  
FILING DATE:

ATTORNEY/AGENT INFORMATION

NAME: A. Anders Brocc

REGISTRATION NUMBER:

REFERENCE/DOCKET NUMBER: PE

TELECOMMUNICATION INFORMATION:

TELEPHONE: (301) 309-8504

TELEFAX: (301) 309-8512

SEQUENCE CHARACTERISTICS: 404

LENGTH: 1416 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

9-0/1-035-404

4:18: Serv Match

US-09-071-035-404

| Query match | Score | DB  | Length |
|-------------|-------|-----|--------|
| 4.18;       | 161;  | 14; | 1416;  |

Best Local Similarity 21.1%; Pred. No. 0.00073;

[illegible]



TITLE OF INVENTION: Insecticidal Protein Toxins From Photobadus  
NUMBER OF SEQUENCES: 88  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Dow Agrioscience Patent Department  
STREET: 9330 Zionsville Road  
CITY: Indianapolis  
STATE: IN  
COUNTRY: US  
ZIP: 46268  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/851,567B  
FILING DATE: 05-MAY-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/063,615  
FILING DATE: 18-MAY-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/395,497  
FILING DATE: 28-FEB-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/007,255  
FILING DATE: 06-NOV-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/608,423  
FILING DATE: 28-FEB-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/705,484  
FILING DATE: 28-AUG-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Seay, Nicholas J  
REGISTRATION NUMBER: 27386  
REFERENCE/DOCKET NUMBER: 960296.93804  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 608-251-5000  
TELEFAX: 608-251-9166  
INFORMATION FOR SEQ ID NO: 49:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1849 amino acids  
TYPE: amino acids  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-851-567B-49

Query Match 3.98; Score 152; DB 12; Length 1849;  
Best Local Similarity 18.38; Pred. No. 0.0067;  
Matches 148; Conservative 120; Mismatches 287; Indels 254; Gaps 37;

157 AWMNGHPQANGIMEGLEPLNIAIRVQE-AWVYSD-----NAPISNDESEFKRESE 208  
1796 AQLQNVAPQGVSAVL-GLDVYQSKETPTAQMENAGVLTAGINSQAATLAFLEDSR 854  
209 SNLVST---SGLSLMRQALQ-----LIDPMLA-----TKMPKQVPPDFOL----- 246  
855 SAALSTYIYIRQVAKAAAIKSRDLYOYLIDNOVSAIKTTRIAEALIA-SIGLYVRAL 913  
247 -SIFESDKG-----DKYKQGNLSSGLVPTKPTPEDPPMPRQPTTVL 295  
914 ENVEENANSVVISRQFIDWKYKRYSTWAGVSQLVYPENYIDPMRIGQTKMDALL 973  
296 RKYA-----IGDYSKLEGCATLQLTGDNVNSFOARVE-----SSNDIGE- 334  
974 QSVSQSLNADVEDAMSLTSEQVANLKYSAHYNDINNOGGLTYFGLSETDAGEY 1033  
335 -----RIELSDGTYYLT-----ELNSPAG--YSIAEPTTFKVEAGKYTI-IDGQIE 379  
1034 YRNSVDSKFNKDFGFAANAMSEMHKIDCPINPYKSTIRPIYK---SRVLMLMEQKEIT 1090

380 NPNKEIPEYPSVEAYNDFE-----EFSVLTON-----YAKF 411  
1091 KQGNSSKDGQYQETDYREYELKLAHIRYDGTWNPITTDVNAKTSLELKNRPAAGLYCAG 1150  
412 YKAKN-----KNGSSQVVCYFNADLKSPDSEGGKTWTP----- 446  
1151 YQGEDTLVYMFYNOQDPLDSYKNAKSMQGLYIF-ADMAS-----KDMPEQSNVYRDN 1201  
447 -----DFTTGEVKTTHIAGRLDFKYTKAPKPTDP 475  
1202 SYQGFDTNNVRRVNNRYAEDYEIPSSVSSRRDYGMDGYLSMYNNGDIPINRYKAASDL 1261  
476 DTEFLKHKKVYKEXY-----REKGAIEYSGLTETQLAAQOLAIYFTDSAEJDKDLKD 531  
1262 KIYSPKRLIITHNGYBEQKRNQCNLMNKKYGLGDKFLVYTSLGVPNNSSKMLFYVYQ 1321  
532 YHGFEDNDSTLVAKILVEYADSNPPOLDLDFEIPNNK-----YOSLIGTQW----- 582  
1322 YSG-----NTSGINGRLL--FHRDTYTP--SKVEAWIPGAKRSILTNQNAAGDYATDSL 1373  
583 -HPEDLVDIIRMEDKKEVI-----PVTHNLTLL--KRTVTGLAGDKTKDPHFE----- 626  
1374 NKPDLLKQYIFMTDSKGTARDVSGPVEINTAISPAAVOIIVKAGGKQETFTADKVSIO 1433  
627 -----TELKNNNOELLSQFVKTKDKTLLE-KDG-----ATINLKHG 662  
1434 SPSEFDEKNYQFNALIEDISGLNFINNSASIDVYFTAFEDGRKIGYSFISPYTLAKYSTD 1493  
663 ESLTLQGLPEGYSYLVKETSEGYKRVNS---QEVANATVSKTGITSETLAFENKKE 718  
1494 NALTLHNENGAQYM-----QMGSTRRLNLTFLARQLVARRAT--TGIDITLSMETQNOIE 1546  
719 PVVFTGVQKINGYALIVTAGISLGITWG 747  
1547 P-----QLGKGFYATFVIPPYMLSTHG 1568

RESULT 7  
US-08-851-567B-47  
Sequence 47, Application US/08851567B  
GENERAL INFORMATION:  
APPLICANT: Ensign, Jerald C  
APPLICANT: Bowen, David J  
APPLICANT: Petcell, James  
APPLICANT: Facyig, Raymond  
APPLICANT: Schoonover, Sue  
APPLICANT: ffrech-Constant, Richard  
APPLICANT: Rocheleau, Thomas A.  
APPLICANT: Blackburn, Michael B.  
APPLICANT: Hey, Timothy D.  
APPLICANT: Merlo, Donald J.  
APPLICANT: Orr, Gregory L.  
APPLICANT: Roberts, Jean L.  
APPLICANT: Strickland, James A.  
APPLICANT: Guo, Lining  
APPLICANT: Cliche, Todd A.  
APPLICANT: Sukhapinda, Kitisri  
TITLE OF INVENTION: Insecticidal Protein Toxins From Photobadus  
NUMBER OF SEQUENCES: 88  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Dow Agrioscience Patent Department  
STREET: 9330 Zionsville Road  
CITY: Indianapolis  
STATE: IN  
COUNTRY: US  
ZIP: 46268  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/851,567B

FILING DATE: 05-MAY-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/063,615  
FILING DATE: 18-MAY-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/395,497  
FILING DATE: 28-FEB-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/007,255  
FILING DATE: 06-NOV-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/608,423  
FILING DATE: 28-FEB-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/705,484  
FILING DATE: 28-AUG-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Seay, Nicholas J  
REGISTRATION NUMBER: 27386  
REFERENCE/DOCKET NUMBER: 960296.93804  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 608-251-5000  
TELEFAX: 608-251-9166  
INFORMATION FOR SEQ ID NO: 47:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2516 amino acids  
TYPE: amino acids  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-851-567B-47

Query Match 3.9%; Score 152; DB 12; Length 2516;  
Best Local Similarity 18.3%; Pred. No. 0.011; Mismatches 287; Indels 254; Gaps 37;  
Matches 148; Conservative 120;  
157 AMYNGHPONANGIMELEPLNARVTOE-AWYYS-D-----NAPISNPDESFRERE 208  
884 AQLNAPQGVSAIV-GLDYISMKETPRYAQOMENAGVLTAGLNSQANTLHAFDESR 942  
209 SNLVST---SGLSLRQALQ-----LIDPDLA-----TKMPQVDDPDL----- 246  
943 SALSYYIYQVAKAAAIKSRDLYQYLLIDQVSAIKTRIAEAL-SIDLYVNRAL 1001  
247 -SFESEDDG-----DKYKGYQNLSSGLVPTKPPRTGGDPMPENOPQTSVLI 295  
1002 ENEENANGVISROFFIDMDKYNKRISTWAGVSQLVYTPENTIDPTMRIGOTKMDALL 1061  
296 RRYA-----IGDYSKILEGATLQLTGDVNVSPQARVF-----SSNDIGE- 334  
1062 QASVQSQALADYEDAFMGLYLSFEQVANLKVISAVHDNINNOGLTFIGLSETDAGEV 1121  
335 -----RIELSDGYTLT-----ELNSPAG--YSTAEPITFEVKGKYYT-IDGQOLE 379  
1122 YRSVYDHSKFNQDKFANAMSEWHKIDCPINPYKSTIRVYIK---SRUYLMLDEQKEIT 1178  
380 NPKKEIVERYSEAYNDFE-----EESVLTQN-----YAKF 411  
1179 KOTGNSKSDYQETDYRYELKLAHIRYDGTWMTPIFDVNNKISEKLENNRAPGLYCAG 1238  
412 YYAKN-----KNGSSQVYVCFNADLKSPPDSEDDGKTMP----- 446  
1239 YGEGDILLVWFVNOOTLDYSKNAHQGLYIF-ADMAS-----KDMTPESQNVYRON 1289  
447 -----DETTGEVKYTHIAGDLKFKYYVPRDTPD 475  
1290 SYQGFPTNNVRVNRNRYAEDYEIPSSVSSKRDYGMGDYILSMVYNGDIPITINAKASSD 1349  
476 DYFLKIKKIVIEGY-----REKQALEYSGLTQTOLRAATQALAIYFTDSAEIDKDKLKD 531  
1350 KIYISPKLRITHNGYEGQRKQKNOCLNKKYKGLGDKFIYVTSIGLVNPNSSNKLMEFYVYO 1409

532 YHGFDMNDSTLAIAKIIIVEAODSNPPOLDDEFFIPNNK-----YOSLIGTOM----- 582  
1410 YSG-----NTSGINOCRL--FHRTDTP--SKVEAMIGAKRSILTNONAAIGDDYATDSL 1461  
583 -HPEDLVDIIRMEKKEYI-----PVTHNLTL-----KTYVTGLAGRTKDFHE----- 626  
1462 NKPDCLKOTIFMTDSKGRATDVSGVEINTAISPAKVOLIYVAGSGKEQFTADKQVSTOP 1521  
627 -----IELKNNKOBLSQVTKDNTLEF-KDGE-----ATINLKHG 662  
1522 SPSPEMNYQFNALEDGSLNFINNSASIDVFTAFADGSKLGESEFSILVPTLKVESTD 1581  
663 ESLTQGLPEGYSTLYKETDSEGYKVNVS-----QEVANATSKGITSDELAEENKE 718  
1582 NALTLLHNENGAQYM-----QWOSYRTRNLTLFAROLDVARAT--TGIDTILSMETQIOE 1634  
719 PVVPTGVQDKINGVLLALYIAGISGIMG 747  
1635 P-----QLGKGFAYATVYIPYNNLSTHG 1656

RESULT 8  
US-09-327-536-2  
Sequence 2, Application US/09327536  
GENERAL INFORMATION:  
APPLICANT: FISCHETTI, Vincent A.  
TITLE OF INVENTION: FIBRONECTIN AND FIBRINOGEN BINDING PROTEIN FROM GROUP A  
TITLE OF INVENTION: STREPTOCOCCI  
FILE REFERENCE: 022927-008  
CURRENT APPLICATION NUMBER: US/09/327,536  
CURRENT FILING DATE: 1999-06-08  
PRIOR APPLICATION NUMBER: US 08/714,402  
PRIOR FILING DATE: 1996-09-16  
NUMBER OF SEQ ID NOS: 2  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 1161  
TYPE: PRP  
ORGANISM: SFFBP gene  
US-09-327-536-2

Query Match 3.8%; Score 150; DB 17; Length 1161;  
Best Local Similarity 19.9%; Pred. No. 0.0045;  
Matches 191; Conservative 121; Mismatches 326; Indels 324; Gaps 51;  
21 KNSKRTYTLV--GVPLMT-----FALVTSWVGAKYVGLVESTPAIINPDSSSEYRW-- 72  
112 KTSRTVTVYVYENGTYKTLVNPYNGELISKAGSKDV-----SSLDLENPKKSVYSKYGR 166  
73 ---YGESEYVRGHPY-----KQ-----FRVAHDLRVNLEGSRSYOVYCF 109  
167 TEYSSGAAPFYRNHAAVYFKMSFELKQDKDSEITINPGDVTVLQDRRLNKG----- 217  
110 NUKKAP-----LGSDDSVKKWYKHKHGISTKFEDYA----- 141  
218 -ISQDIPKIIYDSANGPLAIGKYAHENHOLIYFTFTYIAGLDKVOLSAEILSFLENKEVL 276  
142 -----MSPRITGDELNOK--LRAVMYNGHPONANGIMEGL-----EPLNAIRVTOE 185  
277 ENTSISNFKSTIGGQELITTKGVNVLVYGNESYKESNYITNGLSNNGSIESYVT--ETGE 334  
186 AWYYSQDNAPISN-PDESFR-----RESSENLVTSQLSLMRQALQOLIDPNLATKMP 237  
335 FVWYVYVNPRTNIPYATNMNMGFGARASNTSDLENDANTSAELGEIYQYEVPEGEKLP 394  
238 KQVPDD-----FQLSFESEDDGDK-YNKGY----- 262  
395 SSVGVQVYTKLTLTDTIAGLNGFQMTKRRIDFGNNIONKAPITIKVTKTDQSGKPLV 454  
263 -QNLLS-----GG-----LVPTKPTTGDDPPMPRPNQQTSLVLRKXA 299

DB 455 QSNLASRGAEEAFTPYGVNYPQNETALSPSKSGSGSEF--TKPSITVANKRVA 512  
QY 300 IGDYSL-----LEGATYQLTGDNVNSFOARVSSNDIGE--RIELSDGTYLTELNSP 331  
DB 513 QLFKRMSTDNVPLPEAAELRSSNGNS--QKLEASNTQGEVHFHKLDTSTGYLDEKAP 571  
QY 352 AGYS-----IAEPIF-----KVEAGVYTIIDGKO--IENPKRIVE 387  
DB 572 KGIQOQTEKATYVDTTPPAEEMVTWGSBPHSSVKYEAKEVITVHKEITLTFSGKIME 631  
QY 388 PYSVEAYNDFEERSVLTTONYAKFYAKKNKSSQVYCFNADLKSPSEDEGKMTPTD 447  
DB 632 -----NRPD-----QRPAKIOYQLQNGO-----KMPNOIQE-----VTKD 663  
QY 448 FTTGEVYTHIAGRDLFKTYVPRDTPDTPELKHAKVIEKGYREKQALIESGLTETOL 507  
DB 664 ---NDMSY--HF--KDLPRKDAKNOE-----KYSVEEVAVPDGYKYSYLGNIFNT 708  
QY 508 RAATOLAIYFTDSAEILDMDKLDYHFGDMNDSTLAVAKILVEYADDS--NRPOLDL 565  
DB 709 R-ETEFVEEONNENLEFGNAELKGSQSKIIDEDTLTFEGKIKMNDYAEKRPQAIQVO 767  
QY 566 FE-----IPNNKYOGLIGTOMHP-----DLV-----D 589  
DB 768 LVADGVAVSGQTFEISGNGNEMSEFEKNLKKYNGTGNDIISYKEVTVPTGYDVTYSAND 827  
QY 590 IIRMEDEKEVI-----PYTHNLTLKTYVTGLAGRTYDFHEIE---LKNKQCELLS 638  
DB 828 II--NNKREVITQOGPKLEETLPLESGASG--GTTVEDSRPVDLQSLSEQCSQSG 883  
QY 639 QVKTOK--TWLEK-----DQK-----ATINLKHESLLOG-----LPEGSYL 677  
DB 884 MTEEDSATHINKSKDIDCKELAGATMELROSSGKTIISTWISDGOVKDFYLPKGTTF- 942  
QY 678 VKETDEGKYV-----KVSQEVANATVSKTGITSDETLAFENKEPVVPTG-----VDQ 727  
DB 943 VERAAPDGEIAIAITFYNEQ--GGVTVNGKATKGDTHVMDAKKPTKSGQVADIEE 1000  
QY 728 KI 729  
DB 1001 KL 1002

RESULT 9  
US-09-200-650-5  
; Sequence 5, Application US/09200650A  
; GENERAL INFORMATION:  
; APPLICANT: Foster, Timothy J.  
; APPLICANT: Eldhorn, Deloyre N.  
; APPLICANT: Hook, Magnus A.O.  
; APPLICANT: Perkins, Samuel L.  
; TITLE OF INVENTION: Fibrinogen-Binding Proteins from Staphylococcus aureus  
; FILE REFERENCE: 09910-0100P  
; CURRENT APPLICATION NUMBER: US/09/200,650  
; CURRENT FILING DATE: 1998-11-25  
; EARLIER APPLICATION NUMBER: 60/066,815  
; EARLIER FILING DATE: 1997-11-26  
; EARLIER APPLICATION NUMBER: 60/098,427  
; EARLIER FILING DATE: 1998-08-31  
; NUMBER OF SEQ ID NOS: 21  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 1315  
; TYPE: PRT  
; ORGANISM: Staphylococcus aureus  
US-09-200-650-5

Query Match 3.8%; Score 149; DB 16; Length 1315;  
Best Local Similarity 20.2%; Pred. No. 0.0068;  
Matches 203; Conservative 93; Mismatches 336; Indels 372; Gaps 45;

QY 8 NKINTINTQVLSKNS--KRFYTVLVGVFLMIALVTSNMGATVAGLVESSTP----- 59

DB 208 NSNNENNADIIILPKSTAPKLNTR-----MRIAAPSSSEAKANNVDLITSNTTLVVDA 262  
QY 60 ---NAINP--DSSSEYRWYGESEYVGHPPYKQFRAVHADLRVNLKESRSQVYCFNLKRA 114  
DB 263 DKNNKIYPADYLSLSQTLVDDKKSQDYF-----TIKSDYQVYGLMPDEI 311  
QY 115 FPLGS-----DSSVKKRYKKHKG-----ISTKFEYAMSPRITGELQKLAAYVNGH- 163  
DB 312 KNIGDIDKPNNGEITATKADIDTANNLITFTFDYV-----DRFNSVQMGINYSIYMDA 364  
QY 164 ---PONANGIMEGLEPLNALIRVQEAVMWYSNDNAPISNPDESFRKSESNL----- 211  
DB 365 DTIPVSKNDYEFNVTIGNTTKTTANIQIPDYVNEKNSIGSAFTETVSHVKGKENGPIY 424  
QY 212 ---VTSQSLMRQALK---QIDPMLATMPKQVDPDFOLSIFESBQDKYKNGY 262  
DB 425 KQTIYVNPSENSLTNAKLKQVAYHSSYPNNIGQINKDVTD--IKIYQ--VPKGYTLNKGY 480  
QY 263 QNLSGGLVPTKPTPDPPMPNPQOTTSVLIRKTAIGYSK----- 305  
DB 481 D-----VTKELT-----DVTNQYLQKITTYGDNNSAVIDFGNADSAVYVMVN 522  
QY 306 -----LLEGATYQLTGD-----NY 319  
DB 523 TKFOYTNSESPITVQMATLSTGKNSYSTGNALGFTNNQSGAGQVYKIGNTVWEDTNK 582  
QY 320 NSFQ-----ARFESSN--DIERIELSDGTYYLTLE------NSPAGYS 355  
DB 583 NGVQELGEKGVGNVTVYFDMNTNTKVGAVTKEDGSYILPILPNQDGYRVEFNLPRGYE 642  
QY 356 IAE----- 358  
DB 643 VTPSKQGNNEELDSNGLSVITVNGKDNLSADLGKPKKYNLGDYVWEDTNKNGIDQDE 702  
QY 359 -----PIPFKEVAGKYV-----TLIDGK--QIENPKREI-----VEPYSVEAYNDF 397  
DB 703 KGISGYTVTLKDENGVNLKVTYTDADGKRYFTLDNGNRYVEETTPGTYPTVTSQSDI 762  
QY 398 EEPF-VLTTONY-----AKFYAKKNKSSQVYCFNADLKSPDSED--GKRT 443  
DB 763 EKDSNGLTGTVINGADNMNTLDGSEYKTPKYNLGNVYWEDTNKDGKO--DSTKGISGYT 820  
QY 444 MTPDFTTGEVYTHIAGRD--LEKTYVPRDTPDTPELKHAKVIEKGYRKKGAIEF--- 499  
DB 821 VTLKNGEVLQTTKDKDKQYQFT-----GLENGTYKVEFETP 859  
QY 500 SGLTEPQLRAATQLAI--YYFTDSAEILDCK-----LKDY-----HGFQ 536  
DB 860 SGITPTQVSGSTDEGIDSGNSTSTTGAYIKDKDNDTIDSGFYKPPYNNLGDYVWEDTNKNGVO 919  
QY 537 DMNDSTLAVA-----KILVEYADSNP--QITDLDFEPIPNKKNKYOGLIGTOMHPED 586  
DB 920 DKREKISGYTVTLKDNCKDNKVLKTVTTDENGKYOQFDL-----NNGYK----- 963  
QY 587 LVDIIRMEDEKEVIIP--VTHNLTLRK-----YVTGL--AGRTKDPHFETELKKNKQEL 636  
DB 964 ---VEFEPSSGYTPTPSVTSNGNDEKDSNGLTGTGAYIKDNDNTLDSGF---KTKPKRYSL 1016  
QY 637 -----LSQTVTKDTKTNLEFKDKGKATINKKHGESLTLQGLPBGYSVLVWETDEGKYK 689  
DB 1017 GDYVWYDSNKDGKQDSTEGKIDYKVTLLNEKGEVIGTTKTDENKGYCFDNLDSGKRYKI 1076  
QY 690 VNSQEVANATVSKTGITSDETLAFENKKEPVVPTGVQDKI--NGY 732  
DB 1077 F--EKPRAGLTQGTNTTEDDKADGGEVDVYTIIDHDFTLIDNGY 1118

RESULT 10  
US-09-200-650A-5  
; Sequence 5, Application US/09200650A  
; GENERAL INFORMATION:  
; APPLICANT: Foster, Timothy J.

APPLICANT: Edhinn, Deirdre N.  
APPLICANT: Hook, Magnus A.O.  
APPLICANT: Perkins, Samuel L.  
TITLE OF INVENTION: Fibrinogen-Binding Proteins from  
TITLE OF INVENTION: Staphylococcus aureus  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Jones & Askeew, LLP  
STREET: 191 Peachtree Street, 37th Floor  
CITY: Atlanta  
STATE: Georgia  
COUNTRY: USA  
ZIP: 30303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/200,650A  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/066,815  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Green, Jamie L.  
REGISTRATION NUMBER: 32467  
REFERENCE/DOCKET NUMBER: 09910-0100P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 4048183700  
TELEFAX: 4048183799  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1315 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHEICAL: NO  
AMT-SENSE: NO  
FRAGMENT TYPE: N-terminal  
US-09-200-650A-5

Query Match 3 8%; Score 149; DB 16; Length 1315;  
Best Local Similarity 20.2%; Pred. No. 0.0068;  
Matches 203; Conservative 93; Mismatches 336; Indels 372; Gaps 45;  
DB 8 NKLINTNORVLSKNS--KRFYTVLVGVFLMIPALVTSWVGAKTVFGLVSSSTP-----59  
208 NSNNENNADIIILPKSTAPKRLNR-----MRIAAYQPSSTEAANNVNDLITSNTTLVYDA 262  
QY 60 ---NAINP--DSSEYRWYGYESYVRGHYYKQFRAVHDIRVLEGRSRYQYCFNLKKA 114  
DB 263 DKNKKIVPAODYLSLRSQITLVDDKVKSGVF-----TIKYSDFVQVYGLPEDI 311  
QY 115 FPLGS-----DSSVKMYKKKHDG-----ISTKFEDYAMSPRTGDELNOKLAAVYNGH---163  
DB 312 KNIGIDIKDPNNGETITAKHDITANNLITTYFTTYV-----DRENSVOMGINTYIYMDA 364  
QY 164 ---PQANANGIMEGLPELMAIRYQEAUVWYSDNAPISNPDESFRKRESENI-----211  
DB 365 DRIIVSKNDVEFVNTIGNTTKTTANIOYDPDYVNNKNSIGSAFTEIVSHVGNKNGY 424  
QY 212 ---VSTQSLSMRALK---QLIDPNLATMPKOVDPDFOLSTFESGDKDKYKGY 262  
DB 425 KOTIYVNSSENSILNKLKQVAYHSSYPNIGQINKDVT---IKIYQ--VPKGYTLNKG 480  
QY 263 QNLSGLVPTKPTPGDPPMPNQPOTSVLIRKYYAIGDYSK-----305  
DB 481 D-----VNTKELT-----DVTNQYLOKITYGNNNSAVVIDEGNADSAVYVNVN 522

QY 306 -----LLEGATLQLTGD-----NV 319  
DB 523 TKFOYTNSEPTLYOMATLSTGNKSVSTGNALGFTNNOSGAGOEYVYKIGNYMEDTK 582  
QY 320 NSFQ-----ARVSSN---DIGERIELSDGTITLTL-----NSPAGS 355  
DB 583 NGVOELGKGVGNVYTVYDNTNNTKVGSAVTKEDGSYILPLPNGDYRVERPSNLPKGE 642  
QY 356 IAE-----358  
DB 643 VTPSKOGNNEELDSNLSVITVNGKDNLSADLGITKPKYNLDGYWEDTNKNGIQDDE 702  
QY 359 -----PITFKVAGKY---TIIDK---QIENPKKEI-----VEPYSEAYNDF 397  
DB 703 KGISGVTVTLKDNNGNLTKTVTTDADGKYKFTDLDNGNKVEFTPEGTPTVTYSGSDI 762  
QY 398 EEFSS-VLTQNT-----AKFYAKNKGSSQYVYCFNADLKSPDSBD---GCKT 443  
DB 763 EKDSNGLTTTGVINGADNNTLDSGFYKTPKYNLDGNVWEDTNKDGQ--DSTKGISGV 820  
QY 444 MPDPFTTGEVKTTHLGRD-LFKYTVKPRDTPDFLKHKKVIEKGYREKQALEY---499  
DB 821 VTLKNGEVLQTTKDKKQKQFT-----GLNNGYKVEFETP 859  
QY 500 SGLTETQLRAATQLAI-YFTDSAEIDKDK-----LKY------HGPG 536  
DB 860 SGYPTQVSGTDEGIDNSGTSTGVYIKDKDNDTIDSGFYKPTYNLDGYWEDTNKNGY 919  
QY 537 DANDSTLAVA-----KILVEYKQDSNPP-QLTDDLFILPNNKYSGLGTQWHPED 586  
DB 920 DKDEKGISGVTVTLKDNKDKVLTQVTTDENGKYQFTDL-----NNGTYK-----963  
QY 587 LVDIIMEDEKKEVIR--VTHNLTLRK-----TVTGL---ACDRTKDFHEIELKNNKQEL 636  
DB 964 ----VEFTPSGTYTPSVSGNDEKDSNGLTTTGVYIKADNNTLDSG---YKPKYSL 1016  
QY 637 -----LSQVYTKDNLNFKDGKATINLKHGESITLQGLPBGYSYLVKPEDSEYK 689  
DB 1017 GDVWYDSNKKDGKODSTEGIKDKVKTLLNEKEGVIGTKTDENGKYCPDNLDSGRKYVI 1076  
QY 690 VNSQEVANATVSKTGTSDETLAFENKKEPVYPTVDOKI-NGY 732  
DB 1077 F--EKPAGLTQGTGNTTEDDKDADGGEVDVTTIYDHDFTLDNGY 1118

RESULT 11  
US-09-071-035-458  
Sequence 458, Application US/09071035  
GENERAL INFORMATION:  
APPLICANT: Gail H. Choi  
TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides  
NUMBER OF SEQUENCES: 496  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/071,035  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: A. Anders Brookes



```

? REGISTRATION NUMBER: 36,373
? REFERENCE/DOCKET NUMBER: PB369P2
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (301) 309-8504
? TELEFAX: (301) 309-8512
? INFORMATION FOR SEQ ID NO: 458:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 2032 amino acids
? TYPE: amino acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: protein
US-09-071-035-458

```

|                       |                  |                |            |             |
|-----------------------|------------------|----------------|------------|-------------|
| Query Match           | 3.8%             | Score 149      | DB 14      | Length 2032 |
| Best Local Similarity | 19.0%            | Pred. No.      | 0.014      |             |
| Matches 178           | Conservative 117 | Mismatches 330 | Indels 310 | Gaps 44     |

|    |      |  |      |
|----|------|--|------|
| Qy | 19   | LSKSKFEYTLVLGVFLMFLALTYSW-----GAATVG-----LVESTSPMAI          | 62   |
| Db | 1098 | LKRTADETTILAGAHFOIMDAKQTVLREGVDAATGVITTEGGLPQGOYLIVETAP---   | 1154 |
| Qy | 63   | NPDSSSEYMYGYESYVYRGHPYRQVAAHDLRVNLGSSRSYQVYCNFKKAFFLGSDDS    | 122  |
| Db | 1155 | -----EGTVSDELAKGVITITDEETSQAQP--TIKNDVNMVFEKMDK              | 1200 |
| Qy | 123  | VKKH---YKHHGISTKF---EDYMSPRITGDELNOKRAVMTNGHPONANGIME--G     | 173  |
| Db | 1201 | GKKLVNARFKLEHAHVTPTPFHMEVEVLAPDR-----NANQGLEFSDS             | 1242 |
| Qy | 174  | LEP-LMAIRVTQEAVMYSSNAP-----ISNPDSFKKSESNS                    | 210  |
| Db | 1243 | LKPPELYFTELEAPGTGLDTPPKREIVYQNTSGQIRDVHYKMLYQSSAELIKKDAQCN   | 1302 |
| Qy | 211  | LVSTQSLSLM--ROALKQ--LIDPMLATKMPROYDDPQLSIFESSEKDGKYNKGQNTL   | 265  |
| Db | 1303 | PLAGEESVLDITGQAVREHLVSDANGKTVYDIAFGKQF---VEKAP-----          | 1349 |
| Qy | 266  | LSGGLVPTTKPPPTGGDPMPNPOT-----TSVLIRKAYIGDYSKLEGATLQ          | 313  |
| Db | 1350 | -AGLLTPEPSAFTIAASDGRKPAFVIAIANFVNYGCTAKLIRKQVNG---HLISGATFK  | 1405 |
| Qy | 314  | LGTGNVNSPQARFESSNDIGERF--ELDSGTITLELNSPAPYSI-ABPIPTKV--EAG   | 367  |
| Db | 1406 | VLDAGKETIGTL--TNNQGEIVAEHLAAGKRYEVEKPAKPTGYLLNTPTVPPELAKNAG  | 1464 |
| Qy | 368  | K-----VYTIIIDGKOLENNKEILVEPYSVEAANDPEERSVLTQMYAK--           | 410  |
| Db | 1465 | KPAVYVASDNFVYSKGAFOJLVKTNSDQPLAGAV---FELY-DINKOSLGITATSGDK   | 1519 |
| Qy | 411  | -----FYANKNK-----NGSSOVVYC-----FNADLKSPPSESDGKMTPTDF         | 448  |
| Db | 1520 | KIIPRLDAPGTYYYKEIKAPKLPGDADYIITPELVKVEIRGQFKDDPEI-----F      | 1569 |
| Qy | 449  | TTCGVAKTHIAGDLERKYIVKPRDTPDTFLHKIKKVIYEKGR-----EKGQAT---     | 497  |
| Db | 1570 | QLG--AFANRKGRAVPCAKIDANANPLPGTIFKLYR--IENGKIFEREVTAEDKDSLAME | 1625 |
| Qy | 498  | -----EYSGLEFETQLRAATQATYYF-----TDSAEIDKRLKLDYNG--FG--DNMD    | 540  |
| Db | 1626 | DLGAGSYELDELATQGYIVNKOPILEYVKKNSNKKOPRLELEFYVQAEYWGRRVNEOG   | 1685 |
| Qy | 541  | STLAVAKILVEYAKDSNPOLDLDFIIPNNKKYOS-----                      | 576  |
| Db | 1686 | QTLAAGVAFALYNDEQNGQGSITPTLNAAGKRYSEITTDKGTETIYAGLNGHVLVET    | 1745 |
| Qy | 577  | -----LIGTQWHPEDLVDIIRMEDKKEVIVPTHNLTLKTYTGLAGRTDHFHEIELK     | 630  |
| Db | 1746 | KAPGTYLDTTLTR--FDVTAQLGKEGPIALGDILINYGTA-----QLTKE           | 1789 |
| Qy | 631  | NNKQELLSTQV--KTQKTNLFEFGDKAATL-NLKHESLTLQGLPBGY-----SLV      | 678  |

| Qy                | Db  | Qy                | Db  |
|-------------------|---|-------------------|---|
| 679               | 1790  | 679               | 1790  |
| KETDSEGRK         | NETSEALAGAVFKVIDETG-QIVDGGTINLMSDKQGVIAKNLAPSTYRFEVTOAPTSTYL  | KETDSEGRK         | NETSEALAGAVFKVIDETG-QIVDGGTINLMSDKQGVIAKNLAPSTYRFEVTOAPTSTYL  |
|                   |   |                   |   |
| ---VKANSQEVANA--- |   | ---VKANSQEVANA--- |   |
| 1849              | NETSASAFITLAKDNQGRPATVVLKAPFINVQGAAKLVKIDQGNLALAGAEKFTVDAETGQ | 1849              | NETSASAFITLAKDNQGRPATVVLKAPFINVQGAAKLVKIDQGNLALAGAEKFTVDAETGQ |
|                   |   |                   |   |
| 639               | TVSKTGITSDETLAFENKKEPPVPTGVDDKI-NGY                           | 639               | TVSKTGITSDETLAFENKKEPPVPTGVDDKI-NGY                           |
|                   |   |                   |   |
| 1909              | TVASRLSDNKGVLGVVNHLDPPGKGTIVETKAPDGI                          | 1909              | TVASRLSDNKGVLGVVNHLDPPGKGTIVETKAPDGI                          |
|                   | 1943  |                   | 1943  |

RESULT 12  
US-09-071-035-462

```

: Sequence 462, Application US/09071035
: GENERAL INFORMATION:
: APPLICANT: Gil H. Choi
: TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
: NUMBER OF SEQUENCES: 496
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Human Genome Sciences, Inc.
: STREET: 9410 Key West Avenue
: CITY: Rockville
: STATE: Maryland
: COUNTRY: USA
: ZIP: 20850
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette, 3.50 Inch, 1.4MB storage
: COMPUTER: HP Vectra 486/33
: OPERATING SYSTEM: MSDOS version 6.2
: SOFTWARE: ASCII Text
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/071,035
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: A. Anders Brookes
: REGISTRATION NUMBER: 36,373
: REFERENCE/DOCKET NUMBER: PB369P2
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (301) 309-8504
: TELEFAX: (301) 309-8512
: INFORMATION FOR SEQ ID NO: 462:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 2032 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-09-071-035-462

```

| Query Match | Score | DB  | Length |
|-------------|-------|-----|--------|
| 3.88;       | 149;  | 14; | 2032;  |

|    |      |   |      |
|----|------|---|------|
| QY | 19   | LSKSKRFFYTLVGVFLMIPALVTSNW-----GAKTVG-----IVESTPNAI           | 62   |
| Db | 1098 | LKKTAMDETTLILGANFQIWDQAKTQVLAEGYVDATGVTTFSGGLPQOGYILVETKAP--- | 1154 |
| QY | 63   | NPDSSEYRWYGYESYVARGHPYKQERVAHDRLVNLEGSRSYQVYCFNLKKAFFLPGSDS   | 122  |
| Db | 1155 | -----EGYVSDELAKGAVITITDEFTSAEQNP-TIIKNDVNYVLEKMDK             | 1200 |
| QY | 123  | VKKK----YKKHDGISTKK--EDYAMSRLTGDELNLQKLAIVMTNGHPQANNGIME--G   | 173  |
| Db | 1201 | GKKLVNARFLEIHAIVTTPFTNMEVEVLAPDR-----NANQGLEWDS               | 1242 |
| QY | 174  | LEP-LNLRVTOGEAVWYYSNAP-----ISNPDSFKRESSES                     | 210  |
| Db | 1243 | LKPELVQFTEIEAPTGILLDTTPKRFITQNTSGQIRDVHVKMLNYGSAELIKKDAQN     | 1302 |

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OY 211 LVSTQSLSM---RQALKQ--LIDPNLATKMPKQVPPDDFOLSTFESDCKGDKYKNGYQNL 265
DB 1303 PLAGAEFSVLDITGQAVREHLVSDANKVYVTLAPGKYOF---VETKAP----- 1349
OY 266 LSGGLVPTKPPPTGDPMPNPOT-----TSVLIRKVAIGDYSKLLLEGATLQ 313
DB 1350 -AGYLTNTPSAFTIAASDNGKPAVYATANFVNYGTAFLIKKDVNG---HLISGATFK 1405
OY 314 LTGDVNSFQARVSSNDIGERI--ELSDGTYLTELNSPAGYSI-AEPTTFKV---EAG 367
DB 1406 VLDKGETIOTGL-TTNNGEIVAHEHLAPGKYRVEETKAPGTGLANTTTPVFEIAEKRNAG 1464
OY 368 K-----VYTIIDGKQIENPNKEIYEPYVAYNDFEESVLTQONAK-- 410
DB 1465 KPAVVASDNFVSYKGAFOIVKTNADQPLAGAV---FELY-DHNKQSIGITATSGKDQ 1519
OY 411 -----FYAKNK-----NGSSQVYVC-----FNADLKSPPDSEDGKMTPTDF 448
DB 1520 KIIFRLAPGTYYKKEIKAPKLPGADYIIPELVKVEIRGDFGDEI-----F 1569
OY 449 TTGEVKTTHIAGRDLEFYTKPRDTPDFLKHKKIYIEKGR-----EKGQAI--- 497
DB 1570 QLG--AFANKRGAFFKKIDANANPLPGTIFKLYR--IENGKEIFEREVTAEEKDSLAME 1625
OY 498 -----EYSGLETQOLRAATOLAIYF-----TDSAEIDKDKLDYHG--FG--DMND 540
DB 1626 DLGAGSELDLADTGYIYNKOPITYVVKKNSNDKOPDELEFVYQAEVMGRKYNQEG 1665
OY 541 STLAVAKIIVEYADSNPQJLTDLEFIPNNKXOS----- 576
DB 1686 QTLGAVFAIYNADQNGPQSGPTFLNRAGEKVEITTDKTGEIYAKGLNEGHVYLVET 1745
OY 577 -----LIGQWHPEDLVDIIRMEDKKEVLPVTHNLTKRTVYGLADDRKDFHEIELEK 630
DB 1746 KAPTYLDTTLHP---FDVTAQIGKEQPIALGDLINYQTA-----QLTKE 1789
OY 631 NNRQELISQTV--KTQNTNLEFKDGKATI-NLKHGSELTQGLPEGY-----SYLV 678
DB 1790 NENGELAGAVFYIDBTG-QYVDGQTNLMSDQNGKVIANKLAPGRYFVETQAPSTYLL 1848
OY 679 KETDSEGYK-----VKVNSQEVANA----- 698
DB 1849 NEIPSAFTIAKDNQGRKPAIVLVKAPINYGAKAKLVKIDQKNAKGAEKVTDAETGQ 1908
OY 699 TVSKTGITSDETLAFENKKEPVVPTGVOKI-NGY 732
DB 1909 TVARSLRSDNQGVLQVNHLPQKTYFVETKAPDGY 1943

RESULT 13
US-09-071-035-466
; Sequence 466, Application US/09071035
; GENERAL INFORMATION:
; APPLICANT: GIL H. Choi
; TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
; NUMBER OF SEQUENCES: 496
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; FILING DATE:
; APPLICATION NUMBER: US/09/071,035
; CLASSIFICATION:

```

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: A. Anders Brookes
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PB369P2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 466:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2032 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-071-035-466

Query Match 3.88; Score 149; DB 14; Length 2032;
Best Local Similarity 19.08; Pred. No. 0.014;
Matches 178; Conservative 117; Mismatches 330; Indels 310; Gaps 44;

OY 19 LSKSRKFFTVLGVFLMIFALVTSNV-----GAKTVFG-----LVESSTPNAI 62
DB 1098 LKKTAMETIILAGAHQIWDQAKTOVLRGTYDAGVITIFGGLPGQOYLLVETKAP--- 1154
OY 63 NPDSSSEFYMYGYESYVGRHPYKQFVANDLRVNLGSRSYOYVCFNLKAPPLGSDSS 122
DB 1155 -----EGYVSDLAKGAVITIDEETSAEAGAP-TIKKDVKNKVELEKDER 1200
OY 123 VKKW-----YKHDGISRKF---EDYAMSPTITGDELNQKLRVAYNHPQANGIME--G 1173
DB 1201 GKVLVNAEFLEHNAVITPETHWEVPLAPDT-----NANGQLEVDS 1242
OY 174 LEP-LNAIRYTOEAWVYSSDNAP-----ISNPDESFRSESEN 210
DB 1243 LKPELVGFTLEIAPVGLDITTPKRFIVTQSGQIRDVHVMKMLNYGSAELKKQDQGN 1302
OY 211 LVSTQSLSM---RQALKQ--LIDPNLATKMPKQVPPDDFOLSTFESDCKGDKYKNGYQNL 265
DB 1303 PLAGAEFSVLDITGQAVREHLVSDANKVYVTLAPGKYOF---VETKAP----- 1349
OY 266 LSGGLVPTKPPPTGDPMPNPOT-----TSVLIRKVAIGDYSKLLLEGATLQ 313
DB 1350 -AGYLTNTPSAFTIAASDNGKPAVYATANFVNYGTAFLIKKDVNG---HLISGATFK 1405
OY 314 LTGDVNSFQARVSSNDIGERI--ELSDGTYLTELNSPAGYSI-AEPTTFKV---EAG 367
DB 1406 VLDKGETIOTGL-TTNNGEIVAHEHLAPGKYRVEETKAPGTGLANTTTPVFEIAEKRNAG 1464
OY 368 K-----VYTIIDGKQIENPNKEIYEPYVAYNDFEESVLTQONAK-- 410
DB 1465 KPAVVASDNFVSYKGAFOIVKTNADQPLAGAV---FELY-DHNKQSIGITATSGKDQ 1519
OY 411 -----FYAKNK-----NGSSQVYVC-----FNADLKSPPDSEDGKMTPTDF 448
DB 1520 KIIFRLAPGTYYKKEIKAPKLPGADYIIPELVKVEIRGDFGDEI-----F 1569
OY 449 TTGEVKTTHIAGRDLEFYTKPRDTPDFLKHKKIYIEKGR-----EKGQAI--- 497
DB 1570 QLG--AFANKRGAFFKKIDANANPLPGTIFKLYR--IENGKEIFEREVTAEEKDSLAME 1625
OY 498 -----EYSGLETQOLRAATOLAIYF-----TDSAEIDKDKLDYHG--FG--DMND 540
DB 1626 DLGAGSELDLADTGYIYNKOPITYVVKKNSNDKOPDELEFVYQAEVMGRKYNQEG 1665
OY 541 STLAVAKIIVEYADSNPQJLTDLEFIPNNKXOS----- 576
DB 1686 QTLGAVFAIYNADQNGPQSGPTFLNRAGEKVEITTDKTGEIYAKGLNEGHVYLVET 1745
OY 577 -----LIGQWHPEDLVDIIRMEDKKEVLPVTHNLTKRTVYGLADDRKDFHEIELEK 630

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